

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Hooykaas et. al.

**Serial No.:** To be assigned

**Filed:** June 20, 2003

**For:** NUCLEIC ACID INTERGRATION IN  
EUKARYOTES

**Examiner:** To be assigned

**Group Art Unit:** To be assigned

**Attorney Docket No.:** 2183-6028US

**NOTICE OF EXPRESS MAILING**

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 or PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
US - 6,180,850	01-30-2001	Pioneer Hi-Bred International

Foreign Patent Documents

<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee</u>
WO 00 12716	03-09-2000	Pioneer Hi-Bred Int
WO 00 42205	07-20-2000	Novartis-Erfindungen
WO 00 68404	11-16-2000	Pioneer Hi-Bred Int

Other Documents

BOULTON et al., Components of the Ku-dependent non-homologous end-joining pathway are involved in telomeric length maintenance and telomeric silencing, European Molecular Biology Organization Journal, 16 March 1998, pp. 1819-1828, Vol. 17, No. 6.

BRESSAN et al., The Mrell-Rad50-Xrs2 protein complex facilitates homologous recombination-based double-strand break repair in *Saccharomyces cerevisiae*, Molecular and Cellular Biology, November 1999, pp. 7681-87, Vol. 19, No. 11.

PCT International Search Report, PCT/NL01/00936, dated July 3, 2002, 4 pages.

PCT International Preliminary Examination Report, PCT/NL01/00936, dated March 11, 2003, 15 pages.

TEO et al., Identification of *Saccharomyces cerevisiae* DNA ligase IV: involvement in DNA double-strand break repair, The EMBO Journal, 1997, pp. 4788-95, Vol. 16, No. 15.

TSUKAMOTO et al., Effects of Mutations of RAD50, RAD51, RAD52, and Related Genes on Illegitimate Recombination in *Saccharomyces cerevisiae*, Genetics Society of America, February 1996, pp. 383-91, Vol. 142.

TSUKAMOTO et al., Hdf1, a yeast Ku-protein homologue, is involved in illegitimate recombination, but not in homologous recombination, Nucleic Acids Research, 1996, pp. 2067-72, Vol. 24, No. 11.

**Attorney Docket No.: 2183-6028US**

van ATTIKUM et al., Non-homologous end-joining proteins are required for  
Agrobacterium T-DNA integration, The EMBO Journal, 2001, pp. 6550-58, Vol. 20, No. 22.

In compliance with the duty to disclose information material to patentability pursuant to  
37 C.F.R. § 1.56, Applicants hereby identify the following listed copending applications naming  
the same inventor(s):

Attorney Docket No.: 2183-5586US  
Serial No.: 10/300,666  
Filing Date: 11/19/2002  
Title: METHOD OF EFFECTING A CHANGE IN A CELL, AND A  
VECTOR

This Information Disclosure Statement is filed within three (3) months of the filing date  
of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee  
pursuant to 37 C.F.R. § 1.17(p) is required.

Respectfully submitted,



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Date: June 18, 2003  
ACT/bv

Enclosures: Form PTO-1449 or PTO/SB/08  
Cited Documents

Document in ProLaw

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2

**Complete if Known**

Application Number	To be assigned
Filing Date	June 20, 2003
First Named Inventor	Hooykaas et. al.
Group Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	2183-6028IJS

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BOULTON et al., Components of the Ku-dependent non-homologous end-joining pathway are involved in telomeric length maintenance and telomeric silencing, European Molecular Biology Organization Journal, 16 March 1998, pp. 1819-1828, Vol. 17, No. 6.	
		BRESSAN et al., The Mrell-Rad50-Xrs2 protein complex facilitates homologous recombination-based double-strand break repair in Saccharomyces cerevisiae, Molecular and Cellular Biology, November 1999, pp. 7681-87, Vol. 19, No. 11.	
		PCT International Search Report, PCT/NL01/00936, dated July 3, 2002, 4 pages.	
		PCT International Preliminary Examination Report, PCT/NL01/00936, dated March 11, 2003, 15 pages.	
		TEO et al., Identification of Saccharomyces cerevisiae DNA ligase IV: involvement in DNA double-strand break repair, The EMBO Journal, 1997, pp. 4788-95, Vol. 16, No. 15.	
		TSUKAMOTO et al., Effects of Mutations of RAD50, RAD51, RAD52, and Related Genes on Illegitimate Recombination in Saccharomyces cerevisiae, Genetics Society of America, February 1996, pp. 383-91, Vol. 142.	
		TSUKAMOTO et al., Hdf1, a yeast Ku-protein homologue, is involved in illegitimate recombination, but not in homologous recombination, Nucleic Acids Research, 1996, pp. 2067-72, Vol. 24, No. 11.	
		van ATTIKUM et al., Non-homologous end-joining proteins are required for Agrobacterium T-DNA integration, The EMBO Journal, 2001, pp. 6550-58, Vol. 20, No. 22.	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO

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Sheet	1	of	2
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Examiner Name	To be assigned
Attorney Docket Number	2183-6028US

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

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Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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